



PlateSpin® Orchestrate

Product overview – version 2.0 and beyond

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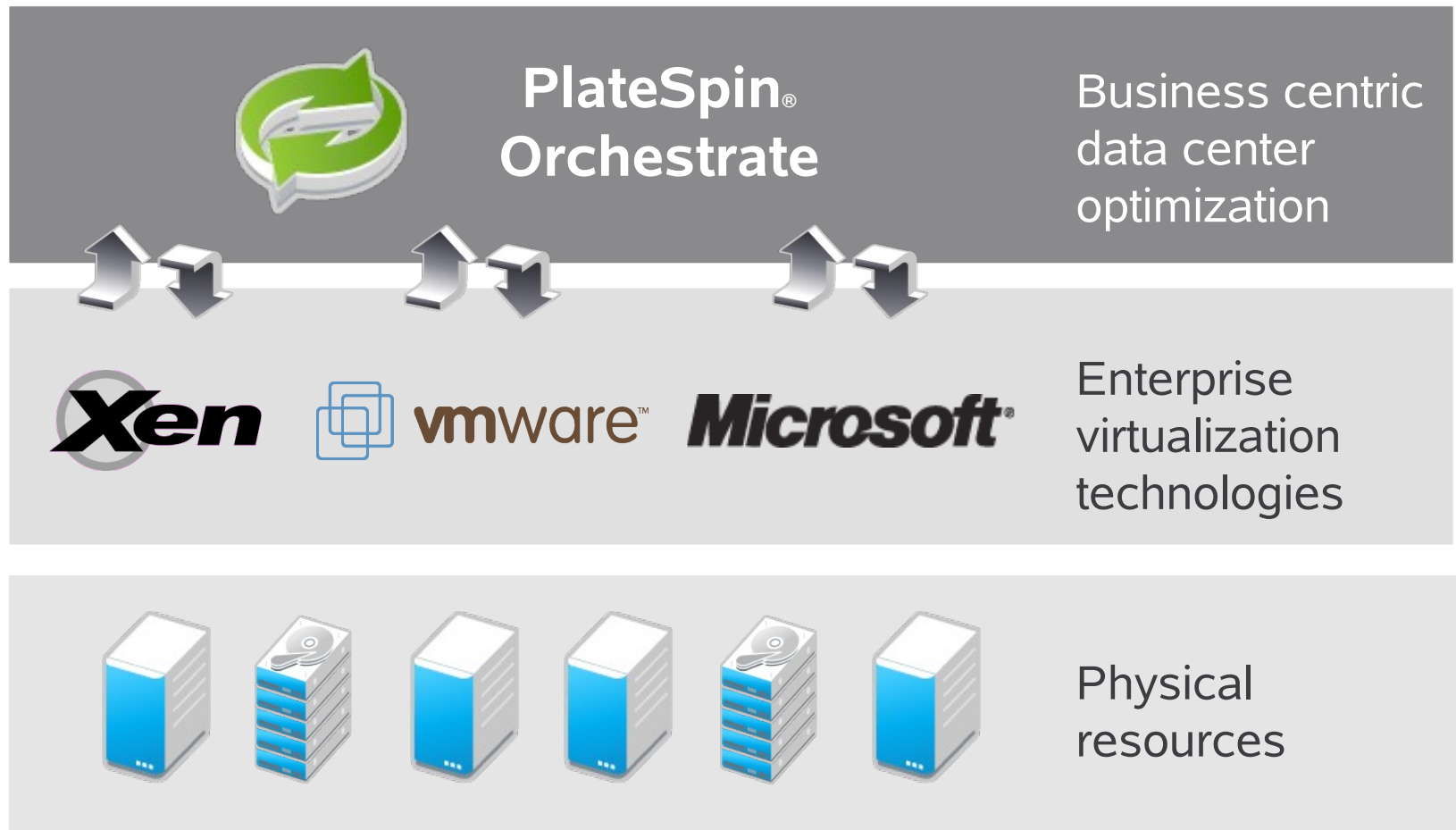
PlateSpin® Orchestrate



Orchestration engine that allows for intelligent automation, enabling you to align IT to business requirements, control costs, and minimize risks, by managing virtual machines in the most efficient manner

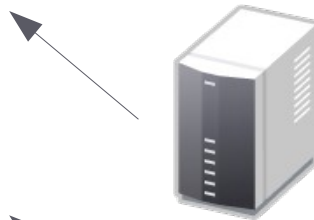
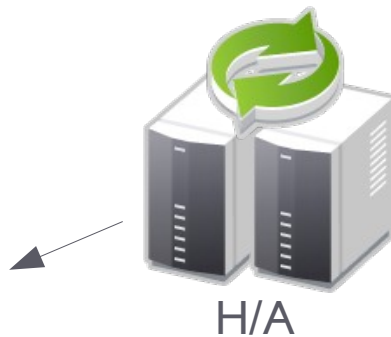
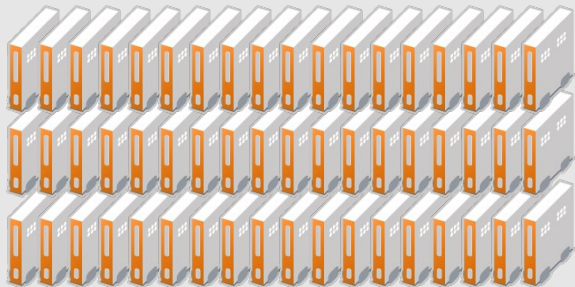
- Resource discovery via provisioning adapters
- Prioritized workload management
- Powerful scheduling engine
- Policy driven automation
- Virtual machine (VM) life cycle management
- Support for heterogeneous hypervisors
- Distributed builder for Xen VMs

The automated, virtualized data center



PlateSpin® Orchestrate – components

- Host Servers
 - Monitoring agent
 - Orchestrate agent
 - CIMOM
- Guest VMs
 - Monitoring agent (optional)
 - Orchestrate agent (optional)



PlateSpin® Orchestrate

- Resource discovery
- Policies
- Jobs
- Grid services

VM build instructions

VM builder(s)

- OS install sources
- Auto-install files
- Xen VMs only

Monitoring server

- Ganglia server
- Open source
- Metrics for physical & virtual machines



PlateSpin® Orchestrate Development Client

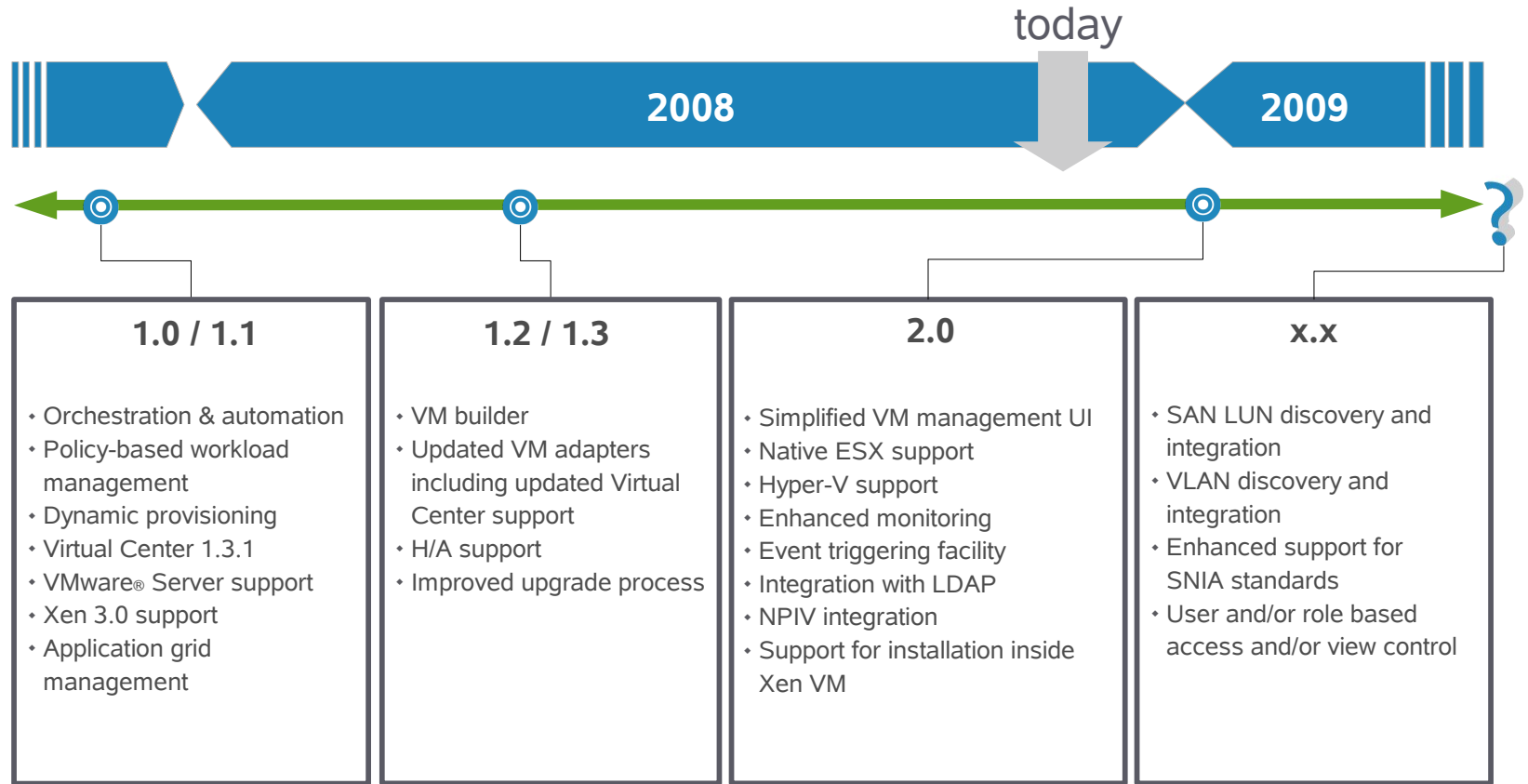
- Define jobs
- Create policies
- Schedule jobs
- Define events
- Manage storage



PlateSpin® Orchestrate Client

- Create VMs
- Manage VMs

PlateSpin® Orchestrate – time line



Product was known as
Novell® ZENworks® Virtual Machine Management



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PlateSpin® Orchestrate 2.0 – key new features

- New provisioning adapters
 - VMware® ESX provisioning adapter
 - Allows for ESX management without VMware® Virtual Center
 - Support for ESX 3.0.1, 3.0.2 and 3.5
 - VMware® ESXi still requires Virtual Center
 - Hyper-V provisioning adapter
 - Support for Microsoft® Windows Server 2008 with Hyper-V™ role enabled
- Easy to use new VM management UI
 - Only exposes VM related operations (VM creation & management)
- Integration with LDAP user databases
 - Data center automation administrator can configure which users can schedule which tasks based on LDAP grouping

PlateSpin® Orchestrate 2.0 – key new features

- Enhanced monitoring for disk and net I/O, CPU and RAM
 - Metrics gathering for physical and virtual resources
- Event triggering facility
 - Triggers can be linked to any object information fact
 - Events can start jobs and alert already running jobs
- NPIV integration
 - VMs use virtual world wide port numbers for SAN I/O
 - SAN zoning / LUN masking can be based on this virtual port number
 - VMs can migrate freely without losing access to zoned storage
- Support for installation inside virtual machines
 - Initially only for Xen
- Improved scaling, for hundreds of VM hosts

PlateSpin® Orchestrate Success Story

- The New Zealand Supercomputing Centre (NZSC) offers on-demand computing capacity for its customers worldwide
- 504 physical systems, hosting up to 1004 virtual machines
- PlateSpin® Orchestrate is used to automate the creation and management of virtual customer environments
- Customers use a self service provisioning portal for order placement

"With the increase in size and complexity of the facility, the NZSC needed to build new infrastructure management tools. PlateSpin® Orchestrate was chosen for its capabilities in automating the management of virtualized data center resources." - Steve Osborn, service line manager for Open Source solutions

<http://www.novell.com/NZ/news/press/novell-helps-supercomputing-leader-to-cut-operating-cost-and-maximize-resource-utilization>



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